

AMENDMENTS TO THE CLAIMS

Please amend claims 1-4, 8, 10-13 and 16, and cancel claims 5-7, 9, 14 and 15, as follows.

Listing of Claims

1. (CURRENTLY AMENDED) A nozzle for discharging ~~at least one~~ a plurality of liquid ~~filament~~ filaments onto a moving substrate, comprising:

a nozzle body having a first side and a second side, said first side including a liquid supply port and an air supply port adapted to couple with respective liquid and air supply passages of a module body, and said second side including a ~~recess~~ plurality of recesses;

a plurality of ~~first~~ frusto-conically shaped ~~protrusion~~ protrusions on said second side, each said protrusion including a base positioned within one of said ~~recess~~ recesses, an apex and a side surface converging toward said apex;

a plurality of liquid discharge ~~passage~~ passages, each said liquid discharge passage extending along an axis through said apex of a respective one of said ~~protrusion, protrusions and said liquid discharge passage~~ communicating with said liquid supply port; and

a plurality of air discharge passages in said nozzle body ~~and~~ , each said air discharge passage opening into one of said ~~recess~~ recesses adjacent said base of said respective protrusion.

2. (CURRENTLY AMENDED) The nozzle of claim 1, wherein each of said ~~recess~~ recesses has a generally conical shape.

3. (CURRENTLY AMENDED) The nozzle of claim 1, wherein each of said air discharge passages is angled in a direction generally toward said respective liquid discharge passage and ~~offset~~ is offset from the axis of said liquid discharge passage.

4. (CURRENTLY AMENDED) The nozzle of claim 3, wherein said air discharge passages are oriented such that air issuing from each said air discharge passage is in a direction generally tangential to the direction of the liquid filament issuing from said respective liquid discharge passage.

5-7. (CANCELED)

8. (CURRENTLY AMENDED) The nozzle of claim 1, wherein each of said air discharge passages is offset from the axis of said respective liquid discharge passage by a distance at least equal to the radius of said liquid discharge passage.

9. (CANCELED)

10. (CURRENTLY AMENDED) The nozzle of claim ~~[[9]]~~ 1, wherein said ~~second~~ plurality of air discharge passages are positioned in a generally square pattern about said ~~second~~ respective liquid discharge ~~passage~~ passages.

11. (CURRENTLY AMENDED) The nozzle of claim 10, wherein each of said air discharge passages ~~of said second plurality~~ is offset by the same distance from the axis of said ~~second~~ its respective liquid discharge passage.

12. (CURRENTLY AMENDED) The nozzle of claim 10, wherein said air discharge passages positioned at diagonally opposed corners of said square pattern are symmetrically positioned relative to said ~~second~~ respective liquid discharge passage.

13. (CURRENTLY AMENDED) The nozzle of claim 10, wherein each of said air discharge passages of said square pattern is offset from the axis of said ~~second~~ respective liquid discharge passage by a distance at least equal to the radius of said ~~second~~ respective liquid discharge passage.

14-15. (CANCELED)

16. (CURRENTLY AMENDED) ~~The applicator of claim 15, further comprising:~~
An applicator for dispensing a plurality of liquid filaments onto a moving substrate,
comprising:

a module body;

a nozzle body coupled to said module body and having a first side and a second side, said first side including a liquid supply port and an air supply port communicating with respective liquid and air supply passages of said module body, and said second side including a plurality of recesses;

a plurality of frusto-conically shaped protrusions on said second side, each said protrusion including a base positioned within one of said recesses, an apex, and a side surface converging toward said apex;

a plurality of liquid discharge passages, each said liquid discharge passage extending along an axis through said apex of a respective one of said protrusions and communicating with said liquid supply port; and

a plurality of air discharge passages in said nozzle body, each said air discharge passage opening into one of said recesses adjacent said base of said respective protrusion

~~a second recess formed in said second side of said nozzle body;~~

~~a second frusto-conically shaped protrusion spaced from said first protrusion on said second side, including a base positioned within said second recess, an apex and a side surface converging toward said apex;~~

~~a second liquid discharge passage extending along an axis through said apex of said second protrusion, said second liquid discharge passage communicating with said liquid supply port; and~~

Application No. 10/510,551
Reply to Office Action of June 16, 2006
Response Dated September 18, 2006

~~a second plurality of air discharge passages in said nozzle body and opening into
said second recess adjacent said base of said second protrusion.~~